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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/867,803	05/31/2001	Lawrence J. Choi	1005/006	6606
7590 11/10/2003		EXAMINER		
Michael N. Ha			PHAM, K	HANH B
1341 Huntersfield Close Keswick, VA 22947			ART UNIT	PAPER NUMBER
'.			2177	
		•	DATE MAILED: 11/10/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

• •	Application No.	Applicant(s)				
	09/867,803	CHOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Khanh B. Pham	2177				
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	. 136(a). In no event, however, may a resply within the statutory minimum of thirty d will apply and will expire SIX (6) MON ate, cause the application to become AB.	aply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 31	May 2001 .					
2a)☐ This action is FINAL . 2b)⊠ T	his action is non-final.					
Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims						
4) Claim(s) 1-8 is/are pending in the application	١.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)☐ objected to by th	ne Examiner.				
Applicant may not request that any objection to t	• • • • • • • • • • • • • • • • • • • •	` '				
11) The proposed drawing correction filed on	is: a)□ approved b)□ di	sapproved by the Examiner.				
If approved, corrected drawings are required in re	• •					
12) The oath or declaration is objected to by the E	xaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
Certified copies of the priority documer	nts have been received in Ap	oplication No				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domes	·					
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	rovisional application has be	een received.				
Attachment(s)	in priority under ou o.o.o.	330 4.14.01 121.				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

Art Unit: 2177

DETAILED ACTION

Response to Amendment

1. The preliminary amendment filed November 5, 2001 and the supplemental preliminary amendment filed January 3, 2002 have been entered. The specification has been amended.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims **3-4 are rejected under 35 U.S.C. 112**, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 3-4 depend on claim 89, which does not exist.

In claim 3, the meaning of the phrase: "the serendipity probability a measure of probability that..." is unclear.

The scope of claims 3-4 is so unclear that the Examiner could not conduct a reasonable search of the prior art. Thus, the Examiner did not make a prior art rejection to claims 3-4 in this Office Action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 09/867,803 Page 3

Art Unit: 2177

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2, 5-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Fayyad et al. (US 6,633,882 B1), hereinafter "Fayyad".

As per claims 1, 5, 6, Fayyad teaches a computer-assisted method for evaluating a cluster assignment for an observation, comprising:

- "for each of a plurality of observations, obtaining a data set containing no more than one proxy value for each of a plurality of variables, each variable having a plurality of possible values" at Col. 5, table 1;
- "the data set also containing a cluster assignment for the observation, the cluster assignment identifying one cluster from a plurality of clusters" at Col. 5 lines 45-55;
- "for each observation from the plurality of observations, calculating a percent of proxy values for the plurality of variables that equals a mode of that observation's corresponding cluster's proxy values for the corresponding variables" at Col. 9 line 64 to Col. 10 line 25;
- "outputting the percent for each observation" at Col. 9 line 64 to Col. 10 line 25.

Application/Control Number: 09/867,803

Art Unit: 2177

As per claims 2, 7, 8, Fayyad teaches a computer-assisted method for evaluating a cluster assignment for an observation, comprising the activities of:

- "for each of a plurality of observations, obtaining a data set containing no more than one proxy value for each of a plurality of variables, each variable having a plurality of possible values" at Col. 5, table 1,
- "the data set also containing a cluster assignment for the observation" at Col. 5
 lines 45-55;
- "for each observation from the plurality of observations, estimating a purposeful probability that a particular possible value from the plurality of possible values for a particular variable will be purposefully provided by observations assigned to a particular cluster from a plurality of clusters" at Col. 21 line 60 to Col. 22 line 18; and
- "outputting each purposeful probability" at Col. 22 lines 10-18.

Conclusion

5. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

If a reference indicated as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is (703) 305-9601 for faster service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (703) 308-

7299. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)746-7240.

> Khanh B. Pham Examiner Art Unit 2177

KBP October 29, 2003



Page 5